

IN THE CLAIMS

Please **REPLACE** claims 1-15, 17, and 27-34 as follows.

1. (FIVE TIMES AMENDED) A system real-time managing object-oriented system objects as job objects among groups of workers as worker groups in communication with each other via networked computers, said system comprising:

a form generator generating job definition forms defining worker groups that process the job objects according to job-object conditions, thereby representing a group of workers as a job;

a resource manager managing the job-object conditions worker group by worker group in real-time;

a job monitor monitoring, in real-time, job processing by the worker groups based upon the job definition forms and maintaining security of the job objects according to the job-object conditions in real-time, thereby for a first worker group inhibiting access to the job objects thereof from another worker group to which permission to use the job objects of the first worker group is not allocated; and

a scheduler establishing the job-object conditions and scheduling each worker group to process the job objects according to each worker group procedure defined in the job definition form, in response to the job processing information provided by said job monitor.

2. (FOUR TIMES AMENDED) The system according to claim 1, wherein said resource manager, job monitor, and scheduler exchange rights to use the job objects among the worker groups.

3. (TWICE AMENDED) The system according to claim 1, further comprising a rearranging unit that manages and rearranges the members and job objects of the worker groups according to progress of the jobs, wherein said job monitor monitors the jobs and job objects of the worker groups according to information from said rearranging unit.

4. (TWICE AMENDED) The system according to claim 1, wherein:
an emergency worker group is allowed to access every job object of every worker group;
and
said job monitor accepts any request from the emergency worker group for accessing a job object.

5. (TWICE AMENDED) The system according to claim 1, wherein said job monitor performs at least one of transferring a job object from one of the worker groups to another worker group and automatically changing the job objects of any one of the worker groups according to a procedure.

6. (THREE TIMES AMENDED) The system according to claim 1, wherein the job definition forms define group permission information, the system further comprising a request unit that, when a first group makes a request to use a job object of a second group, uses the group permission information to contact the second group for permission to use the job object.

7. (TWICE AMENDED) The system according to claim 6, wherein said request unit uses one of a telephone and a pager to request the second worker group for permission to use the job object.

8. (TWICE AMENDED) The system according to claim 6, wherein said request unit uses one of a telephone, a notebook computer, an electronic notepad, and a workstation through one of a wide-area network, a personal computer communication network, and a wireless network to request the second worker group for permission to use the job object.

9. (TWICE AMENDED) The system according to claim 6, further comprising a visual I/O unit and an audio I/O unit to request the second worker group for permission to use the job object.

10. (TWICE AMENDED) The system according to claim 6, further comprising:
an input device, attached to a selected member of the second worker group, for identifying and locating the member; and
a positioning unit generating an image of the selected member, said input unit and positioning unit being used to directly request the member of the second worker group for permission to use the job object.

11. (TWICE AMENDED) The system according to claim 6, wherein said job monitor holds the schedules of the jobs of the worker groups and exchanges the jobs among the worker groups.

12. (THREE TIMES AMENDED) The system according to claim 6, wherein said job monitor limits location, period, and each worker group to handle a job object, to thereby strictly maintain the security of the job object.

13. (TWICE AMENDED) The system according to claim 6, wherein said job monitor indicates whether permission for use of the job object is to be granted upon approval of all or some of the members of the second worker group.

14. (TWICE AMENDED) The system according to claim 6, wherein said job monitor adds a name of a worker group to which a job object belongs to a name of the job object, whereby plural job objects having the same name can be allocated to the worker group.

15. (TWICE AMENDED) The system according to claim 6, wherein said job monitor allocates a representative name to a set of job objects and identically handles the job objects under the representative name.

17. (TWICE AMENDED) The system according to claim 10, wherein said input device is a head-mount display worn by the selected member so that the member may give permission to use the job object.

27. (FOUR TIMES AMENDED) A method of real-time groupwise managing object-oriented system objects as job objects, comprising:

storing groups of workers as worker groups;

generating job definition forms defining the worker groups that process job objects according to job-object conditions, thereby representing a group of workers as a job;

managing the job-object conditions worker group by worker group in real-time;

monitoring, in real-time, job processing by the worker groups based upon the job definition forms;

maintaining security of the job objects according to the job-object conditions in real-time;

inhibiting access to a job object of a first worker group from another worker group to which permission to use the job object of the first worker group is not allocated; and

establishing the job-object conditions and scheduling each worker group to process the job objects according to each worker group procedure defined in the job definition forms, in response to the job processing.

28. (TWICE AMENDED) The method according to claim 27, further comprising setting as one of the job-object conditions rights to use the job objects among the worker groups processing the job objects.

29. (THREE TIMES AMENDED) The method according to claim 28, wherein as the job object conditions a job definition form identifies for each worker group, information indicating the rights to use the job objects, and at least one of a job period, worker group members, processes, the job objects allocated to the job carried out by the worker group, and permission information of the job objects.

30. (FOUR TIMES AMENDED) A computer-readable medium encoded with a program real-time groupwise managing object-oriented system objects as job objects, comprising:

- storing groups of workers as worker groups;
- generating job definition forms defining the worker groups that process job objects according to job-object conditions, thereby representing a group of workers as a job;
- managing the job-object conditions worker group by worker group in real time;
- monitoring, in real-time, job processing by the worker groups based upon the job definition forms;
- maintaining security of the job objects according to the job-object conditions in real-time;
- inhibiting access to a job object of a first worker group from another worker group to which permission to use the job object of the first worker group is not allocated; and
- establishing the job-object conditions and scheduling each worker group to process the job objects according to each worker group procedure defined in the job definition form, in response to the job processing.

32. (THREE TIMES AMENDED) The system according to claim 2, wherein as the job-object conditions a job definition form identifies for each worker group, information indicating rights to use the job objects, and at least one of a job period, worker group members, the job objects allocated to the job to be carried out by the worker group, and the permission information of the job objects.

33. (THREE TIMES AMENDED) A system real-time managing object-oriented

system objects as job objects among groups of workers as worker groups in communication with each other via networked computers, said system comprising:

a job object manager to store one or more groups of workers, to assign a specified job object to the groups of workers, to store permission information for the specified job object, and to determine whether the specified job object is available to a first worker group based on the assignment information; and

a job monitor to receive from said job object manager information indicating whether the specified job object is available to the first worker group, and to request permission for the first worker group to access the specified job object from a second worker group to which the job object is assigned, using the permission information of the specified job object, when the received information indicates the specified job object is not available to the second worker group.

34. (THREE TIMES AMENDED) A system real-time managing object-oriented system objects as job objects among groups of workers as worker groups in communication with each other through network clients, said system comprising:

a file storage to store files of job objects and to store permission information for the job objects, whereby groups of workers can access the job objects through the network clients; and

a server coupled by the network to said file storage and to the clients, said server allocating a corresponding job object to one or more of the worker groups, determining whether the job object is available to a requesting worker group based on the allocation information, and selectively changing the allocation information by using the permission information when a job requires access to the job object.

REMARKS

STATUS OF CLAIMS

Claim 1-18 and 25-34 are pending. Claims 1, 27, 30, 33 and 34 are independent.

Claims 1-18 and 25-34 are rejected under 35 USC 103(a) as being unpatentable over Fargher (US Patent No. 5,826,040) in view of Matsuzaki (US Patent No. 5,767,848) considered with "IBM Disclosure Bulletin."

Claims 2, 28-29, and 31-32 are rejected under 35 USC 103(a) as being unpatentable over Fargher, Matsuzaki, the IBM Bulletin Disclosure as applied to claims 1, 33 and 34 above and further in view of Rapoza (PC Week v12, n19, p. 74, May 15, 1995).